

2020 Final Pertussis Surveillance Report

Reported Pertussis Incidence and Cases

STATES	Incidence (per 100,000)	No. of Cases
ALABAMA	3.13	154
ALASKA	1.78	13
ARIZONA	4.46	331
ARKANSAS	1.15	35
CALIFORNIA	1.83	719
COLORADO	2.15	125
CONNECTICUT	0.08	3
DELAWARE	1.72	17
D.C.	1.40	10
FLORIDA	0.99	216
GEORGIA	1.66	178
HAWAII	1.21	17
IDAHO	8.59	157
ILLINOIS	2.82	355
INDIANA	0.77	52
IOWA	0.98	31
KANSAS	1.96	57
KENTUCKY	1.45	65
LOUISIANA	0.75	35
MAINE	2.22	30
MARYLAND	0.54	33
MASSACHUSETTS	0.64	44
MICHIGAN	1.23	123
MINNESOTA	2.65	150
MISSISSIPPI	0.34	10
MISSOURI	2.10	129
MONTANA	3.70	40
NEBRASKA	2.94	57
NEVADA	0.48	15
NEW HAMPSHIRE	0.29	4
NEW JERSEY	1.47	131
NEW MEXICO	2.99	63
NEW YORK	1.27	142
NEW YORK CITY	0.92	75
NORTH CAROLINA	1.85	196
NORTH DAKOTA	2.48	19
OHIO	4.05	473
OKLAHOMA	0.65	26
OREGON	4.01	170
PENNSYLVANIA	3.11	397
RHODE ISLAND	0.38	4
SOUTH CAROLINA	1.59	83
SOUTH DAKOTA	3.92	35
TENNESSEE	1.44	99
TEXAS	1.17	343
UTAH	4.15	135
VERMONT	1.76	11
VIRGINIA	1.22	105
WASHINGTON	3.16	243
WEST VIRGINIA	1.79	32
WISCONSIN	2.14	125
WYOMING	2.06	12
TOTAL	1.86	6,124

Source: NCHS Bridged Race Intercensal Population Estimate for 2020.

Weeks 1-52, 2020 CDC/NCIRD/DBD/MVPDB

Notice to Readers:

Final 2020 Reports of Notifiable Diseases

NOTE: The pertussis case definition was modified by CSTE effective January 1, 2020. Criteria were modified increasing sensitivity for case ascertainment such that case counts may increase. The 2020 CSTE case definition can be viewed here: <https://ndc.services.cdc.gov/case-definitions/pertussis-2020/>.

Reported Pertussis Cases

2019: 18,617 2020: 6,124

Reported Pertussis Cases and Percent Hospitalization by Age Group

Age	No. of Cases (% of total)	Age Inc /100,000	% Hospitalized by age**
< 6 mos	486 (7.9)	26.0	40.5
6-11 mos	233 (3.8)	12.5	15.5
1-6 yrs	1276 (20.8)	5.4	3.5
7-10 yrs	763 (12.5)	4.7	1.7
11-19 yrs	1677 (27.4)	4.5	1.4
20+ yrs	1683 (27.5)	0.7	12.4
Unknown Age	6 (0.1)	N/A	N/A
Total	6,124 (100)	1.9*	6.2

*Total age incidence per 100,000 calculated from 6,118 cases with age reported.

**Age-specific proportion of cases that were hospitalized, calculated from those with a known hospitalization status.

Reported Pertussis Deaths

Age	Deaths*
Cases, aged < 1 yr	4
Cases, aged ≥ 1 yr	1
Total	5

*Deaths reported through NNDSS.

Reported DTaP Vaccine Status of Children with Pertussis, Ages 6 months through 6 years

Age	Vaccine History Unknown	Unvaccinated	Undervaccinated (1-2 doses)	Completed Primary DTaP Series (3+ doses)	Total
	No. (%)	No. (%)	No. (%)	No. (%)	No.
6-11 mo	117 (50.2)	17 (7.3)	44 (18.9)	55 (23.6)	233
1-4 yrs	490 (50.6)	99 (10.2)	58 (6.0)	322 (33.2)	969
5-6 yrs	130 (42.4)	32 (10.4)	17 (5.5)	128 (41.7)	307
Total*	737 (48.8)	148 (9.8)	119 (7.9)	505 (33.5)	1509

Footnote: CDC recommends all children receive at least 3 doses of DTaP by age 6 months. DTaP coverage in the United States is very high. Over 95% of all children 19-35 months of age have received at least 3 doses of DTaP. This table illustrates a similar trend among the pertussis cases reported during 2022—the majority have received at least 3 doses of DTaP. Because protection from DTaP wanes over time, even children who are up to date with their pertussis vaccines may contract pertussis. Unvaccinated children are more likely to contract pertussis and have more severe disease than those who are fully vaccinated. These data cannot be used to interpret vaccine effectiveness or to assess risk, as the data are incomplete and there is no healthy comparison group.

